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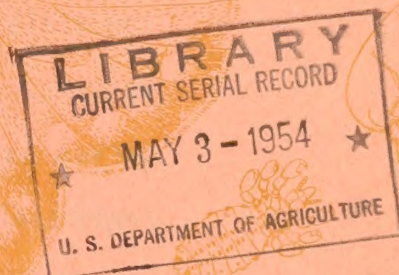
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VOL. 4 No. 16

APRIL 23, 1954

Cooperative
**ECONOMIC INSECT
REPORT**



Issued by

PLANT PEST CONTROL BRANCH

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL BRANCH

ECONOMIC INSECT SURVEY SECTION

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Branch serves as a clearing house and does not assume responsibility for accuracy of the material.

Reports and inquiries pertaining to this release should be mailed to:

Economic Insect Survey Section
Plant Pest Control Branch
United States Department of Agriculture
Washington 25, D. C.

Y COOPERATIVE ECONOMIC INSECT REPORT

Highlights of Insect Conditions

ARMYWORM moth flights reported from Illinois, Missouri, Indiana, Tennessee and Mississippi. Some heavy larval infestations in Louisiana. (page 306).

PEA APHID continues to build up on alfalfa in several states. Damage showing in some areas of Missouri and Kansas. (page 307).

Heavy local infestations of GREENBUG in Anderson, Bourbon, Crawford and Harper Counties, Kansas. (page 309).

BROWN WHEAT MITE infesting wheat in southeast Kansas. (page 309).

GREEN JUNE BEETLE larvae abundant in areas of Indiana. (page 314).

FLEA BEETLES damaging tobacco in several counties of Georgia and South Carolina. (page 315).

BOLL WEEVIL and COTTON FLEAHOPPER outlook in central Texas area. (page 316).

EAR TICK population very heavy in west central Oklahoma. (page 318).

Reports in this issue are for the week ending April 15 unless otherwise designated.

First Reported Records of Season

Corn flea beetle taken in McHenry County, Illinois. Corn earworm moth collected at Knoxville, Tennessee. Pea aphid in alfalfa at Ithaca, New York. Spittlebugs began hatching April 9 in Indiana and Wooster area of Ohio. First oriental fruit moth in baits at Yakima, Washington April 11. Codling moth pupae at Vincennes, Indiana April 13. First plum curculio jarred in Adams County, Ohio April 13, Vincennes

Indiana April 9. First rosy apple aphid in Rockland County, New York April 11. European red mite hatching at Vincennes, Indiana April 13. Pear psylla hatching in Yakima Valley, Washington. First tent caterpillar of season in Rockland County, New York, April 14; hatching in Willamette Valley, Oregon April 4-10. Filbert leaf roller hatch started in Oregon March 20. Mexican bean beetle adults at Charleston, South Carolina April 8. Colorado potato beetle adults and eggs and harlequin bug eggs at Charleston same date. First imported cabbageworm adult in Berks County, Pennsylvania, April 15. Screw-worm adults at Punta Gorda, Florida.

WEATHER BUREAU'S 30-DAY OUTLOOK

*Mid-April to Mid-May 1954

The Weather Bureau's 30-day outlook for the period from mid-April to mid-May calls for temperatures to average below seasonal normals from the central Rocky Mountain area eastward to the Mississippi. Above normal temperatures are predicted along the Pacific coast and also in the Southeast, while near normal values are expected in areas not specified above.

Precipitation is predicted to be subnormal over most areas west of the Continental Divide, but above normal rainfall is indicated over a broad area comprising the Gulf States, Mississippi and Ohio Valleys, and the Middle Atlantic States. Near normal precipitation is expected in other areas.

*This report released by the Weather Bureau on April 16, 1954

Weather forecast given here is based on the official 30 day "Resume and outlook," published twice a month by the Weather Bureau. You can subscribe through Superintendent of Documents, Washington, D. C.

Price: \$4.80 a year, \$2.40 for six months.

WEATHER FOR THE WEEK ENDING APRIL 20, 1954

East of the Great Plains moderate to locally heavy midweek rains alleviated droughty conditions in the lower Mississippi Valley, maintained generally ample topsoil moisture elsewhere in this area, and improved water (Weather Continued on page 320).

CEREAL AND FORAGE INSECTS

EUROPEAN CORN BORER (Pyrausta nubilalis) - DELAWARE - Pupation ranges from 20 to 50 percent in Sussex County. (Late News).

GRASSHOPPERS - NEW MEXICO - Active in eastern edge of San Augustine Plains of Socorro County. Small numbers, but may be forerunners of what is potentially a very serious infestation. (Dobson). UTAH - Very little grasshopper hatch in northern or central Utah. Scattered hatching in Washington County April 13. (Knowlton, Dorst).

FLEA BEETLES - ILLINOIS - Corn flea beetle (Chaetocnema pulicaria) taken by sweeping as far north as McHenry County. (Decker). TEXAS - Attacking young corn near Kaufman. (Simmons).

SEED-CORN MAGGOT (Hylemya ciliatula) - TEXAS - Attacking corn near Grand Saline. Forty acres completely destroyed. (Berry).

SUGARCANE BEETLE (Euethola rugiceps) - LOUISIANA - Damaging stands of young corn in East Baton Rouge Parish. (Floyd).

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - LOUISIANA - Continuing to damage young corn and destroying stands of soybeans in East and West Baton Rouge Parishes. (Floyd).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - KANSAS - Winter mortality of larvae in Bourbon County 88 percent, in Cherokee County 80 percent. (Matthew).

ARMY CUTWORM (Chorizagrotis auxiliaris) - KANSAS - Continues to retard seedling alfalfa in fields of central and northern counties as far west as Norton. Several fields in Phillips and one in Riley County disced because of winter-kill. Control measures still being applied. (Marvin).

CHINCHBUG (Blissus leucopterus) - KANSAS - Light infestations (1 to 3 per yard of row) in wheat and barley in several counties. (Matthew). TEXAS - Attacking corn near Giddings (Spivey) and oats near Canton (Berry). INDIANA - Very abundant in hibernating places. (Davis). MISSISSIPPI - Damage to corn in George County. (Bond). OHIO - Spring migration now beginning. (Parks, Reese, Apr. 9).

CUTWORMS - UTAH - Cutworms, including army cutworms, causing some damage to alfalfa in a few fields. (Knowlton). TEXAS - Two larvae of P. margaritosa per square foot on vetch in Van Zandt County. More than usual on corn in Cass County. (Hones). MISSOURI - Considerable increase in moth flight in central area April 16. Some red clover along Missouri River averages 2-3 dingy cutworm (Feltia subgothica) larvae per square foot. Six per square foot in one field in Saline County. (Kyd, Thomas). LOUISIANA - Variegated cutworm (Peridroma margaritosa) damaging alfalfa in Caddo Parish. (Burns). TENNESSEE - Very widespread in East and Middle Tennessee. Destroying clover in grass-clover pastures. Also attacking alfalfa. (Mullett). FLORIDA - Increasing in corn at Pahokee. (Thames). PENNSYLVANIA - Fairly abundant in alfalfa fields in Westmoreland County. (Udine).

ARMYWORM (Pseudaletia unipuncta) - LOUISIANA - Still being found in limited numbers throughout northern quarter of State. Scattered heavy infestations other areas. Generally heavy in Tensas and lower Madison Parish. (Burns). INDIANA - Adults coming to bait traps in peach orchard since April 1 at Vincennes. Heaviest flight April 7 and 8. (Hamilton). ILLINOIS - Flights observed in northern area; have been heavy in central area. (Decker). MISSOURI - Moderate to heavy flights of moths continue at lights over most of State. (Kyd, Thomas).

Light Trap Collections: TENNESSEE - Following species were taken at Knoxville during week ending April 17: Pseudaletia unipuncta 39, Agrotis ypsilon 8, Caenurgina erechtea 80, Prodenia ornithogalli 8, Peridroma margaritosa 17 and Heliothis armigera 1 (first of season). (Stanley). MISSISSIPPI - Moths collected at Stoneville between April 9 and 15 include the following: A. ypsilon 1 compared with 14 for same period in 1953, H. armigera 9 compared with 0, P. margaritosa 37 compared with 50, P. ornithogalli 3 compared with 3, P. unipuncta 94 compared with 432 for same week in 1953. Peak of emergence of this latter species has passed. (Dunnam).

LYGUS BUGS - LOUISIANA - Large numbers of tarnished plant bug (Lygus lineolaris) on alfalfa in Caddo and Red River Parishes. (Burns). TEXAS - Average of 20 to 70 tarnished plant bugs per 5 sweeps (mostly nymphs) in field of vetch near Greenville. (Garner). UTAH - Lygus bugs noted in alfalfa in several counties. (Knowlton). MISSOURI - One to two tarnished plant bug adults per sweep in alfalfa in southern two-thirds of State. (Kyd, Thomas).

PEA APHID (Macrosiphum pisi) - NEW YORK - Five per 20 sweeps on alfalfa in Ithaca vicinity. (Muka). PENNSYLVANIA - Fairly abundant on clover and alfalfa in Lancaster County. (Pepper). DELAWARE - Increasing and winged forms appearing. (Late News). MARYLAND - Building up in alfalfa in Anne Arundel, Washington and Carroll Counties. Numerous on alfalfa over most of State. Over 28 per sweep in alfalfa field in Carroll County. (U. Md., Ent. Dept.). OHIO - Few wingless females and newly-born young on alfalfa April 9. (Parks, Goleman). INDIANA - Beginning to build up in alfalfa. (Davis). ILLINOIS - Average of 1 per square foot in clover in northwestern area, 0.1 in northeastern area, 0.2 in western area, 5.5 in west southwest area, 2.4 in central area, 1.1 in eastern area. (White, Petty, Moore). MISSOURI - Continues to build up on alfalfa over most of State. Most fields in southern and central thirds have 25 to 250 aphids per sweep and average 100-140 per sweep. Moderate to heavy damage apparent most fields. Predator activity increasing in extreme southwest area but remains light over rest of State. (Kyd, Thomas). KANSAS - Continues a threat to alfalfa in southeastern area. Found in all fields surveyed in this area. Wilting and discoloration prevalent in untreated heavily infested fields. Severe infestation in Crawford, Bourbon, Wilson and Montgomery Counties. Spraying operations underway and predators and parasites increasing but still not abundant. (Matthew). OKLAHO 4A - Continues to build up in alfalfa. No reduction in population by predators. (Fenton). TEXAS - Infesting vetch near Wills Point (Berry), Cooper and Greenville (Garner). UTAH - Light populations in northern and central counties. (Knowlton). CALIFORNIA - Heavier than usual for time year in Los Angeles County alfalfa. (Coop. Ins. Pest Rept. Mar.).

APHIDS - OREGON - Unusually heavy infestations of overwintering clover head aphids in central Oregon clover fields. (Dickason, Amen). NEW MEXICO - Continue to build up in numbers on alfalfa in Eddy, Lea and Chaves Counties. A large number of newly-seeded fields killed, with some fall seedings injured severely. Older fields beginning to show burned patches of about 30 by 200 feet. Infestation worst in these three counties plus Roosevelt County. Farther north, predators holding aphids fairly well in check. (Dobson). LOUISIANA - Aphis sp. infestation on vetch in Caddo Parish caused heavy injury before parasites and predators could check infestation. (Burns).

GREEN CLOVER WORM (Plathypena scabra) - TEXAS - One per sweep on vetch near Wills Point. (Berry).

MEADOW SPITTLEBUG (Philaenus leucophthalmus) - INDIANA - Began hatching in central area April 9. (Davis). MARYLAND - Hatching in Washington County. About 0.4 spittle mass per alfalfa stem in one field in Carroll County. (U. Md., Ent. Dept.). PENNSYLVANIA - Twenty-five to 50 percent hatched in southern half of State. Control started April 15. (Pepper, Menusan, Udino).

SPITTLEBUGS - OHIO - First-instar nymphs on weeds and legumes April 7 in Columbus area. (Parks, Goleman). First nymphs at Wooster April 9. (Weaver).

ALFALFA WEEVIL (Hypera postica) - UTAH - Active. Control operations still going on in most counties. No larvae noted. (Knowlton). MARYLAND - Five to 7 per 100 sweeps in alfalfa in Anne Arundel County. Twenty-three per 88 sweeps in Carroll County. Larvae increasing and doing considerable damage. (U. Md., Ent. Dept.). One adult collected at Downsville, Washington County. First record for county. (Harding).

EGYPTIAN ALFALFA WEEVIL (Hypera brunneipennis) - CALIFORNIA - Medium infestation in alfalfa in Imperial County during March. (Coop. Ins. Pest Rept.).

CLOVER LEAF WEEVIL (Hypera punctata) - UTAH - A few adults and larvae in alfalfa in several locations. (Knowlton). KANSAS - Infestations in Riley and Jefferson Counties. One 35-acre field of Ladino clover, having 10-15 larvae per plant, abandoned; however nearby fields had only light to moderate infestations. (Matthew). MISSOURI - Most fields of alfalfa in southern two-thirds of State still average 1-2 larvae per crown while red clover averages 2-3 per crown. More non-diseased larvae noted than at any time this season. Damage still light. (Kyd, Thomas). ILLINOIS - Average of 19.3 weevils per square foot in clover in northwestern area, 11.9 in northeastern area, 27.8 in western area, 22.5 in west southwest area, 44.6 in central area, and 26 in eastern area. (White, Petty, Moore). INDIANA - Normally abundant; damage some localities. (Davis). PENNSYLVANIA - Fairly abundant in Adams and Franklin Counties. (Pepper). MARYLAND - One to two larvae per plant in alfalfa in Washington County. (U. Md., Ent. Dept.).

MAIZE BILLBUG (Calendra maidis) - FLORIDA - Adults on one percent of corn at Haynesworth. (Van Pelt).

NITIDULID (Meligethes crenatus) - OREGON - Emerged from hibernation April 11, and took late flight. (Dahms).

ERIOPHYID MITES (prob. Aceria tulipae) - KANSAS - Found on wheat in nearly all central and north central counties. Populations much less than last fall. (Dahms, Connin).

GREENBUG (Toxoptera graminum) - KANSAS - Heavy but local infestation in Anderson, Bourbon, Crawford and Harper Counties. Injury severe in wheat in some wheat fields in Harper County. A moderate-to-heavy infestation on barley in Anderson County. Two fields of barley in Crawford County damaged beyond control. Heavy infestation in some wheat and barley fields in eastern Bourbon County. Predators and parasites active in some fields. (Matthew).

ENGLISH GRAIN APHID (Macrosiphum granarium) - KANSAS - Light infestation on wheat and barley in central southern and eastern areas. (Matthew). MISSOURI - Ten to 15 aphids per linear foot of row in most small grain fields in southwestern area. Previous infestations severely yellowed or killed small areas in a few fields in Barton, Jasper and Vernon Counties. (Kyd, Thomas).

THEFTS - MISSOURI - Small aphid, per head of rye and 1-3 per head of barley in extreme northeast. No injury. (Kyd, Thomas).

SIX-SPOTTED LEAF HOPPER (Macrostelus fascifrons) - MISSOURI - Four to five leafhoppers per row in many fields of small grains in northwest area. Field margins and grassy areas have heavy populations of leafhoppers and show considerable feeding injury. (Kyd, Thomas).

BROWN WHEAT MITE (Petrinia latens) - KANSAS - Occurring on wheat in nearly all north central and west of U.S. Hwy. 31 and south of U.S. Hwy. 20. Severe infestations (1000 mites per linear foot of row) in central Meade and Ness Counties, southeast Barber County and northwest Barber County. Mite spraying underway. (Dahms, Connin).

SUGARCANE BORER (Diatraea saccharalis) - LOUISIANA - Rather widespread hatchout of first-generation borer. Eggs very abundant in some fields. Development and feeding of young borers slow, especially in areas of no recent rainfall. Extensive dusting program will be needed. (Dugas).

YELLOW SUGARCANE APHID (Sipha flava) - FLORIDA - Average of 100 per square foot on sugarcane grass near Santa Gorda (McQueen); 3 to 8 per square foot in Pensacola Bahia grass at Sparr (Van Pelt).

FRUIT INSECTS

ORIENTAL FRUIT MOTH (Grapholitha molesta) - WASHINGTON - First moths in bait April 11 in Yakima Valley. (Yothers).

CODLING MOTH (Carpocapsa pomonella) - INDIANA - Pupae found in emergence cage April 17 at Vincennes. (Hamilton). WASHINGTON - Larvae started pupating during week of April 14. (Newcomer).

PLUM CUPCULIO (Conotrachelus nempher) - DELAWARE - Active. (Late News). OHIO - First adults jarred from peach trees in Adams and Lawrence Counties April 12 and 14. (Sing). INDIANA - First jarred from peach trees at Vincennes April 14. (Hamilton).

APHIDS - NEW YORK - First rosy apple aphid (Amuraphis rosae) in Rockland County April 11; in Niagara County April 14. Heavy in a few orchards in Ulster County. (Wkly. News Lett.). NEW JERSEY - Hatched in central and northern areas nearly complete. (Farley). DELAWARE - Apple grain aphid (Rhopalosiphum prunifoliae) and apple aphid (Aphis pomi) have hatched but infestations light. (Late News). PENNSYLVANIA - Apple aphid, and apple grain aphid about all hatched in northern area. A few rosy apple aphids in untreated orchards April 13. (Peppler). OHIO - Apple grain aphid started hatching in mid-March; peak April 2-3. Numerous woolly apple aphids in aerial colonies on apple trees in winter. (Outright). TEXAS - Light local infestation of apple aphid on apples near Lugo. (Spicer). UTAH - Hatching in orchards in central and northern areas. Population light in most instances to heavy in some places orchards. (Knowlton). WASHINGTON - Great peach aphid (Myzus persicae) extremely scarce on peaches. (Newcomer). IND. - Threatening in Orleans area. (Marshall).

EUROPEAN RED MITE (Metatetranychus ulmi) - OHIO - Eggs in orchards somewhat less than average. (Outright). INDIANA - Hatched forms first observed this season on apple leaves April 17 at Vincennes. (Hamilton).

RED-BANDED LEAF MINER (Argyrotaenia velutinana) - INDIANA - Activity light in most orchards. No hatching. (Hamilton).

CATFACING INSECTS - PENNSYLVANIA - Plant bugs and stink bugs fairly plentiful on peaches in southeastern area. (Pepper, Menusan). OHIO - Terrestrial plant bug adults abundant on blooming peaches near Portsmouth April 13. Stink bug adults fairly common on peaches in southern area. Predominant species was Thyanta custator, although Euschistus tristigma and E. variolarius also collected. (Rings). INDIANA - First stink bugs jarred at Vincennes April 9. (Hamilton). Less than 2 percent of blooms attacked by lygus in Orleans area, though stink bug attack heavy. (Marshall).

PEAR PSYLLA (Psylla pyricola) - PENNSYLVANIA - Fairly abundant on pears in southeastern area. (Menusan). WASHINGTON - Hatching in Yakima Valley. (Newcomer).

PEAR THRIPS (Taeniothrips inconsequens) - OREGON - Peak emergence March 27, peak in 1953 March 26. (Jones).

EASTERN TENT CATERPILLAR (Malacosoma americanum) - DELAWARE - Hatched during first week in April. Conspicuous on wild cherry. (Leta News). PENNSYLVANIA - Hatched in southern area, April 13. (Pepper, Menusan). NEW YORK - First of season in Rockland County April 11. (Wkly. News Lett.).

SPIDER MITES - UTAH - Large numbers in some orchards on warm slopes. Two-spotted spider mites returning to foliage in southern area. (Knowlton). MASSACHUSETTS - Overwintering mites and eggs abundant on weeds and other ground cover. (Crop Pest Cont. Mass.).

EUROPEAN FRUIT LECANIUM (Lecanium corni) - OKLAHOMA - Very abundant. Eggs laying underway. (Fenton).

WOOLLY APPLE APHID (Eriosoma lanigerum) - OKLAHOMA - Serious infestation on crab apples in vicinity of Stillwater. (Fenton).

WESTERN PEACH TREE BORER (Semiothisa croticola traffi) - CALIFORNIA - Medium damage to peach trees in Siskiyou County reported during March. Moderate in peach and plum orchards in Riverside County. (Coop. Ins. Pest Rept.).

GRAPHE MBILYBUG (Pseudococcus maritimus) - CALIFORNIA - Severe infestations in some vineyards in Tulare County during March. (Coop. Ins. Pest Rept.).

CITRUS RED MITE (Metatetranychus citri) - CALIFORNIA - Unusually heavy infestations, difficult to control, in Los Angeles County citrus. Infestations also reported in San Bernardino, Riverside, Orange and San Diego Counties. (Coop. Ins. Pest Rept.).

CALIFORNIA RED SCALE (Aonidiella aurantii) - CALIFORNIA - Emergence heavier than usual for time of year in Los Angeles County. (Coop. Ins. Pest Rept., March).

FRUIT TREE LEAF ROLLER (Archips argyrospila) - CALIFORNIA - Hatching in citrus orchards in parts of Los Angeles County unusually early. (Coop. Ins. Pest Rept., March).

OMNIVOROUS LEAF TIER (Cnephasia longana) - OREGON - Conditions favorable for development. (Rosenstiel).

PURPLE SCALE (Lepidosaphes beckii) - FLORIDA - While general level of activity this spring will not be especially high, post-bloom application of acaricides will be advisable in many groves. (Pratt, Thompson, Johnson).

FLORIDA RED SCALE (Chrysomphalus conidum) - FLORIDA - Expected to increase on citrus through April, but not expected to be a general problem during spring months. (Pratt, Thompson, Johnson).

PECAN LEAF CASEBEARER (Acrobasis juglandis) - GEORGIA - Some damage to pecan leaves in Mitchell County, April 9. (Osburn).

FILBERT LEAF ROLLER - OREGON - Began hatching April 8. Hatch started March 20 in 1958. (Chang).

Plum gouser, plum curculio and codling moth adults active in orchards in OKLAHOMA. (Bieberdorf).

TRUCK CROP INSECTS

BEAN LEAF BEETLE (Carotoma trifurcata) - SOUTH CAROLINA - Light infestation on snap beans at Charleston. (Cuthbert). FLORIDA - First adults of season on beans at Quincy. (May, Guthrie). Adults also at Jacksonville. (Hetrick).

MEXICAN BEAN BEETLE (Epilachna varivertis) - SOUTH CAROLINA - First adult of season on beans around April 8. (Cuthbert). GEORGIA - Adults on snap beans in Dougherty County April 13. (Osburn). Unusually heavy infestation of adults in garden. (Geiger). FLORIDA - Eggs and adults, 0 to 20 per plant, on beans at Quincy. (May, Guthrie).

PEA APHID (Macrosiphum pici) - FLORIDA - Average of 200 to 300 per plant on English peas near Trenton. (Cobb). Ten per plant on black-eyed peas at Island Grove. (Van Pelt).

FLOWER THRIPS (Frankliniella tritici) - FLORIDA - Average of 5 to 5 per green bean plant at Pahokee. (Thames).

HARLEQUIN BUG (Morantia histrionica) - SOUTH CAROLINA - First eggs of season on cabbage around April 3 at Charleston. (Cuthbert). TEXAS - Noted on mustard near Palestine (Stephenson) and on thistle near Hillsboro (Spicer).

ONION THRIPS (Thrips tabaci) - TEXAS - Average of two per plant in onions near Greenville. (Garner).

PLANT BUGS - TEXAS - One to 3 per plant on onions near Greenville. (Garner).

MELON APHID (Aphis gossypii) - FLORIDA - Four per watermelon plant near Bell (Cobb), 3 per plant at Newberry (Van Pelt).

LEAF MINERS - FLORIDA - One to four larvae per tomato plant in Collier County. (Lander). Five pupae per watermelon plant at Newberry, one per cantaloupe plant at Sparr (Van Pelt) and 14 per plant on string beans at Belle Glade; 90 percent infestation on one 40-acre planting (Thames).

SEED-CORN MAGGOT (Hylemya cilicrura) - CALIFORNIA - Heavy damage necessitating replanting melons in Riverside County during March. (Coop. Ins. Pest Rept.). MISSISSIPPI - Damage to lima beans in Jefferson Davis County. (Tramel).

STRIPED CUCUMBER BEETLE (Acalymma vittata) - GEORGIA - Heavy infestation in Irwin County. (Geiger).

GREEN JUNE BEETLE (Cotinis nitida) - INDIANA - Grubs abundant and destructive by uprooting plants in hot beds in Indianapolis vicinity. Also abundant in southwestern area; a 1953 planting of alfalfa, planted after pasture, severely damaged. (Davis).

IMPORTED CABBAGEWORM (Pieris rapae) - PENNSYLVANIA - First adult seen in Berks County, April 15. (Menusan).

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - SOUTH CAROLINA - First adults and eggs on potatoes around April 8 at Charleston. (Cuthbert). GEORGIA - Adults on Irish potatoes April 10 in Dougherty County. (Osburn). FLORIDA - Range of 0 to 25 per potato plant at Quincy. (May, Guthrie).

VEGETABLE WEEVIL (Listroderes costirostris obliquus) - CALIFORNIA - Five percent damage to spinach in Monterey County. Damage to some tomato seed beds in Sacramento County. (Coop. Ins. Pest Rept., March). GEORGIA - Heavy infestation of larvae on tomatoes in garden in Jasper County. (Milner).

GARDEN FLEAHOPPER (Halticus bracteatus) - FLORIDA - Adults noted at Newberry. (Van Pelt).

BLISTER BEETLES (Epicauta spp.) - FLORIDA - Twenty-five per square foot on tomatoes and potatoes near Homeland. (Haddox).

ARTICHOKE PLUME MOTH (Platyptilia carduidactyla) - CALIFORNIA - From 50 to 75 percent of artichokes harvested from 600 acres showed damage in San Mateo County during March. Twenty-eight percent damage in Monterey County. Medium heavy in Santa Barbara County. (Coop. Ins. Pest Rept.).

A FALSE CHINCH BUG (Nysius sp.) - LOUISIANA - Reported damaging fruit of strawberries in Tangipahoa Parish. (Roussel).

SPITTLEBUGS - DELAWARE - Abundant on strawberries at Thompsonville and southward. (Late News).

STRAWBERRY WEEVIL (Anthonomus signatus) - DELAWARE - Active on strawberries in Georgetown area. (Late News). MISSISSIPPI - Cutting buds on boysenberry plants in Lauderdale County. (Gillenwater).

STRAWBERRY LEAF ROLLER (Ancyliis comptana fragariae) - UTAH - Larvae and some pupae fairly numerous in strawberries in some locations. (Knowlton).

APHIDS ON STRAWBERRIES OREGON - Present in strawberry fields in Willamette Valley all winter. Now inc. easing. (Amen, April 13). MASSACHUSETTS - Becoming active. (Crop Pest Cont. Mess.).

HORNWORMS (Protoparce spp.) - FLORIDA - One per tobacco plant at Newberry. (Van Pelt). One male P. sexta moth taken in trap at Quincy. No larvae observed. (May, Guthrie).

TOBACCO BUDWORM (Heliothis sp.) - FLORIDA - Eggs and larvae average 20 to 100 per tobacco plant at Quincy. (May, Guthrie).

GRASSHOPPERS - GEORGIA - Nymphs causing damage to tobacco in Coffee and Irwin Counties. (Geiger).

FLEA BEETLES - GEORGIA - Damaging tobacco in Coffee and Irwin Counties. (Geiger). SOUTH CAROLINA - Tobacco flea beetle (Epitrix hirtipennis) causing widespread damage to recently-transplanted tobacco plants in Darlington, Florence, Clarendon and Williamsburg Counties. (Lewis, Allen). UTAH - Moderate to large numbers on mustards in several counties. (Knowlton).

CUTWORMS - SOUTH CAROLINA - Some damage to newly-set tobacco plants. (Lewis, Allen). TEXAS - Attacking tomato plants near Frankston. (Stephenson). ARKANSAS - Still causing damage to newly-set tomato fields and strawberry beds. (Barnes).

GREEN PEACH APHID (Myzus persicae) - GEORGIA - Heavy infestation on a few tobacco plants in field in Irwin County. (Geiger). FLORIDA - Ten per plant on black-eyed peas at Island Grove. (Van Pelt).

COTTON INSECTS

COTTON APHID (Aphis gossypii) - LOUISIANA - Moderate infestation on seedling cotton in Natchitoches Parish. (Newsom).

Boll Weevil and Cotton Fleahopper Hibernation and Survival -1953-54 at Waco, Texas: BOLL WEEVIL activity was greater in cages at Waco during February 1954 than during the same month of the 14 preceding years; however, activity was somewhat reduced during March, probably due to dry weather. The winter has been mild. Freezing temperatures occurred on 23 days; with lowest temperature, 19 degrees, recorded on January 22, 1954. The mild winter and activity in hibernation cages during first three months of the year indicate that boll weevil survival in central Texas area may be expected to be high this year.

Collection of two species of croton were made on November 28, 1953 for COTTON FLEAHOPPER survival studies. The plants were installed in emergence cages (100 per cage) February 15, 1954, and the first nymphs appeared February 17. A total of 260 nymphs emerged in February and 31 in March. Emergence in March was low as the weather was extremely dry. The only preceding year, since this study was started in the winter of 1939-40, when this species emerged in February was in 1948. In 1953 the first emergence occurred on March 14 and the total for the month was 7,439; in 1952 March 10 was the earliest date and the total for the month was 1583; in 1950 and 1951 there was no emergence during March. First instar nymphs were found on seedling croton plants in the field on March 13. Owing to dry weather, host plant development and hatch of cotton fleahoppers has been slow. Adults were found on evening primrose on April 8. Build-up of this insect will be governed by moisture conditions during April and May. If rains are considerably delayed, horsemint, which is the favorite spring host, will be late. Migration to cotton may occur later in the season than usual in the central Texas area.

(Parancia).

STORED PRODUCT INSECTS

STORED-GRAIN PESTS - OREGON - Generally more abundant than during past several years. (Every).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

A SPIDER MITE - ARKANSAS - Infesting pine plantations in Ashley and Dallas Counties; damage in Ashley County. (Barnes).

BARK BEETLES (Ips spp.) - ARKANSAS - Continue to cause concern in pine belt of southern Arkansas. Damage varies, with heaviest injury in southeastern Lafayette County, northeastern Ashley and southern Drew County. (Barnes).

A PINE SAWFLY (Neodiprion sp.) - ARKANSAS - Heavy infestations did not develop. Only light local infestations in Ashley, Dallas and Bradley Counties. (Barnes).

A GELECHIID (Filatina sp.) - TEXAS - This insect seemingly defoliated acres of mesquite last year near Crystal City and Carrizo Springs. Medium widespread infestation in this area. (Richardson).

COTTONY MAPLE SCALE (Pulvinaria vitis) - INDIANA - Very abundant in northwestern area. (Davis).

A TUSsock MOTH (Halisidota argentata) - OREGON - Few infestations observed in northern Willamette Valley. (Rosenstiel).

TENT CATERPILLAR - OREGON - Egg masses abundant in northern Willamette Valley counties. Hatching of overwintering eggs began during week of April 4-10. (Rosenstiel).

ELM LEAF BEETLE (Galerucella xanthomelaena) - CALIFORNIA - Emerged late February in Marin County. Early for area. (Coop. Ins. Pest Rept.).

SPRUCE GALL APHID - DELAWARE - Hatching. (Late News).

MELON APHID (Aphis gossypii) - FLORIDA - Average of 100 per plant on hibiscus at Cleveland. (Sealey).

A BEETLE (Lechriops floridanus) - FLORIDA - Up to 100 or more per West Indies mahogany tree (Swietenia mahagoni) in Miami area. (Butcher).

JUNIPER WEBWORM (Dichomeris marginella) - INDIANA - Very destructive in several locations. (Davis).

MAY BEETLES (Phyllophaga spp.) - MISSISSIPPI - Unusually large numbers damaging roses and peach trees in Forrest County. (Broone).

CUBAN-LAUREL THRIPS (Gynaikothrips ficorum) - FLORIDA - Infestations very severe on all new growth of Ficus retusa at Lakeland. (Poucher).

CLOVER MITE (Bryobia praetiosa) - WASHINGTON - Abundant on hollyhock, snapdragon and clover at Ephrata. (Brannon).

A BOSTRICHID - TEXAS - Medium widespread infestation on mesquite near Crystal City and Carrizo Springs. (Richardson).

APHIDS - OKLAHOMA - Very numerous on roses in south central area. (Rogers).

Heavy infestations of an APHID (Cerataphis lataniae) , DICTYOSPERUM SCALE (Chrysomphalus dictyospermi) and COCONUT MEALYBUG (Pseudococcus nipae) on palms at Miami, FLORIDA. (Light).

INSECT AFFECTING MAN AND ANIMALS

MOSQUITOES - FLORIDA - Collection in eastern Alachua County showed that very low biting rates of February and March began rising in late March and are now at a definite nuisance level. Psorophora confinis and Mansonia perturbans mostly responsible for sharp rise. Total biting rate April 11 between sunset and dark was 38 per hour. (Mead).

CATTLE LICE - OKLAHOMA - Population dropping rapidly in most areas. (Howell). UTAH - Still annoying in many herds. (Knowlton).

EAR TICK (Otobius megnini) - OKLAHOMA - A tremendous population, 300 to 800 per animal, in west central part of State. (Howell).

LONE STAR TICK (Amblyomma americanum) - OKLAHOMA - Becoming more numerous on cattle, 5 to 20 replete ticks per animal. (Howell).

AMERICAN DOG TICK (Dermacentor variabilis) - OKLAHOMA - Common on dogs, occasionally on cattle. (Howell).

HOUSE FLY (Musca domestica) - GEORGIA - Heavy infestations building up in poultry houses with laying cages in south Georgia. (Jordan).

SCREW-WORM (Callitroga hominivorax) - FLORIDA - Heavy infestation of adults on calves near Punta Gorda. First of season. (McQueen).

HORN FLY (Siphona irritans) - FLORIDA - Average of 120 per animal on cattle at Haynesworth, 125 per animal at Bithlo, 75 per animal at Dania, and 20 per animal at Sparr. (Van Pelt). OKLAHOMA - Average of 400 per animal in southwest and south central areas. (Flora, Rogers). MISSOURI - Twenty to 25 per animal in southwestern area and 10-12 in central counties. (Kyd, Thomas).

MISCELLANEOUS INSECTS

EUROPEAN EARWIG (Forficula auricularia) - UTAH - Adults numerous in lawn rakings about homes in several areas. (Knowlton).

CLOVER MITE (Bryobia praetiosa) - INDIANA - Very annoying in homes. More common than usual. (Davis).

DROSOPHILIDS - FLORIDA - Great swarms in homes, packing houses and in one tomato cannery near Miami. Favorable conditions have produced large numbers of these flies from cull tomatoes. (Wolfenbarger).

BENEFICIAL INSECTS

CALIFORNIA - Lacewing and syrphid larvae preying on aphids in lettuce, grain and alfalfa in Palo Verde Valley, Riverside County. Large numbers of praying mantid eggs masses on deciduous trees in Beaumont area of Riverside County. (Coop. Ins. Pest Rept., March).

SYRPHID FLY - NEW YORK - Occasional eggs noted in Niagara and Dutchess Counties April 14. (Wkly News Lett.). PENNSYLVANIA - Eggs common on apple in southeastern Pennsylvania. (Menusan).

RECENT IMPORTANT INTERCEPTIONS AT PORTS OF ENTRY

Two interceptions were made recently of a destructive pest of legumes not known to occur in the United States, Bruchidius incarnatus (Boh.) (Bruchiidae). Plant Quarantine Inspectors Lantz at Boston and Holloway at New York seized seven and five pounds of infested broad beans

(Vicia faba) from Lebanon and Egypt respectively in passenger's baggage. Both lots were incinerated. B. incarnatus is considered a serious pest of broad beans in Egypt. It is potentially one of the most dangerous of the foreign bruchids because it reinfests and breeds in the seeds of legumes in storage as well as in the field. It is known to attack chickpea, garden pea, lentil and common vetch as well as broadbean. It has been intercepted in recent years from Egypt, Italy, Lebanon, and Malta. It is also recorded from the Canary Islands, Spain and Tunisia. (Ramsay).

Weather Continued

supplies somewhat in the central Mississippi Valley. Subsoil moisture, however, continued deficient in much of Iowa, Missouri, and the Ohio Valley. In the remainder of the Country rainfall was very light, and serious drought conditions continued in extreme southeastern Colorado, western and central Kansas, west-central and northwestern Oklahoma, parts of the Texas Panhandle, and SW Neb. Strong winds in the Dakotas and in the northern two-thirds of Minnesota dried the soil and caused duststorms that reduced visibility to near zero at Alexandria, Minn., on the 17th. More moisture is needed in nearly all sections between the Cascade and Sierra Nevada Mountains and the Continental Divide. Ranges are dry and stock water low in much of Nevada and some sections of Arizona.

For the second consecutive week temperatures averaged well above normal over virtually the entire Country. Departures generally ranged from 8° to 12° in central California and the far Southwest and 5° to 8° in the Ohio and central and upper Mississippi Valleys. In the lower Colorado Valley maximum temperatures exceeded 100° on several days, reaching 107° at Yuma, Ariz., and 104° at Las Vegas, Nev., on the 18th. Day-time temperatures rose into the 80's in the Mississippi Valley and some east-central areas on the 14th when Sioux City, Iowa, reported 90°, Minneapolis, Minn., 85° (an early-season-high), and the Nation's Capitol 82°. Cooler weather preceded by rains, beginning in the Northwest on the 15th and reaching the Atlantic Coast on the 17th, brought a general freeze to the far western Interior and northern Great Plains and reduced maximum temperatures by 5° to 15° over the entire Country. Following this brief cool snap, temperatures rose rapidly and maxima exceeded 80° in the southern half of the Country. (Summary Supplied by U.S. Weather Bureau).

